10/575640 IAP20 Rec'd PCT/PT/0 13 APR 2006

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Gly Asp Thr Pro Val Leu Pro His Glu Thr Arg Leu Leu Gln Thr Gly 65 70 75 80

Ile His Val Arg Val Ser Gln Pro Ser Leu Ile Leu Val Ser Gln Tyr 90 95

Thr Pro Asp Ser Thr Pro Cys His Arg Gly Asp Asn Gln Leu Gln Val

Gln His Thr Tyr Phe Thr Gly Ser Glu Val Glu Asn Val Ser Val Asn 115 120 125

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Lys His Arg Gly Gly Ser Gln Ser Lys Met Leu Ser Gly Val Gly 605

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Homo sapiens <213>

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Homo sapiens

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Homo sapiens

<400> 22

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Ser His Ser Leu 20

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Val Val Leu Gly Ala Val Val Thr Gly Ala Val Val Ala Ala Val Met 20 25 30

Trp Arg Lys Lys Ser Ser Asp Arg Asn Arg Gly Ser Tyr Ser Gln Ala

Ala Val Thr Asp Ser Ala Gln Gly Ser Gly Val Ser Leu Thr Ala Asn 50 60

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24 27 <210>

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Homo sapiens

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410-1PCTST25.txt
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Arg Arg Gly Pro Leu 35

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Arg Lys Ser Asn Ala Ala Glu Arg Arg Gly Pro Leu 1 5 10

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Met Leu Ser Gly Val Gly Gly Phe Val Leu Gly Leu Leu Phe Leu Ala 10 15

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Pro Arg Gly Phe Leu Ser 35

28 12

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Homo sapiens

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<210> 29

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His Gln Gly Pro Leu
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1 5 10
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        Homo sapiens
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Leu Gly Leu Ile Ile His His Arg Ser Gln Lys Gly Leu Leu His 20 25 30
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Arg Ser Gln Lys Gly Leu Leu His
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37
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Gly Thr Val Leu Ile Ile Lys Ser Leu Arg Ser Gly His Asp Pro Arg 20 25 30
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Ala Gln Gly Thr Leu
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 Val Gly Ile Phe Met His Arg Arg Ser Lys Lys Val Gln Arg Gly Ser 25 30
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Homo sapiens
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  Ala Leu Trp Phe Arg Lys Arg Cys Phe Cys 20 25
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Ala Leu Trp Tyr Met Arg Arg Arg Ser Tyr Gln Asn Ile Pro
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Arg Arg Arg Ser Tyr Gln Asn Ile Pro
1 5
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Trp Ile Ala Leu Val Val Ile Val Pro Leu Val Ile Leu Ile Val Leu
1 10 15
Val Leu Trp Phe Lys Lys His Cys Ser Tyr Gln Asp Ile Leu
20 25 30
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10
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1 10 15
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410-1PCTST25.txt

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20 25 30 Leu Cys Thr Ser Tyr Ser His Ser Ser Thr Arg Asp Gly Arg Arg Asp 45 Arg Tyr Ser Ser Asp Thr Thr Pro Leu Leu Asn Gly Ser Ser Gln Asp 50 60 Arg Met Phe Glu Thr Met Ala Ile Glu Ile Glu Gln Leu Leu Ala Arg 65 70 75 80 Leu Thr Gly Val Asn Asp Lys Met Ala Glu Tyr Thr Asn Ser Ala Gly 85 90 95 Val Pro Ser Leu Asn Ala Ala Leu Met His Thr Leu Gln Arg His Arg 100 105 110 Asp Ile Leu Gln Asp Tyr Thr His Glu Phe His Lys Thr Lys Ala Asn 115 120 125 Phe Met Ala Ile Arg Glu Arg Glu Asn Leu Met Gly Ser Val Arg Lys 130 135 140 Asp Ile Glu Ser Tyr Lys Ser Gly Ser Gly Val Asn Asn Arg Arg Thr 145 150 155 Glu Leu Phe Leu Lys Glu His Asp His Leu Arg Asn Ser Asp Arg Leu 165 170 175 Ile Glu Glu Thr Ile Ser Ile Ala Met Ala Thr Lys Glu Asn Met Thr 180 185 190 Ser Gln Arg Gly Met Leu Lys Ser Ile His Ser Lys Met Asn Thr Leu 195 200 205 Ala Asn Arg Phe Pro Ala Val Asn Ser Leu Ile Gln Arg Ile Asn Leu 210 215 220 Arg Lys Arg Arg Asp Ser Leu Ile Leu Gly Gly Val Ile Gly Ile Cys 235 240 Thr Ile Leu Leu Leu Tyr Ala Phe His 245

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<210> 44

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Homo sapiens

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Met Asp Pro Leu Phe Gln Gln Thr His Lys Gln Val His Glu Ile Gln 1 10 15

Ser Cys Met Gly Arg Leu Glu Thr Ala Asp Lys Gln Ser Val His Ile 20 25

Val Glu Asn Glu Ile Gln Ala Ser Ile Asp Gln Ile Phe Ser Arg Leu 35 40

Glu Arg Leu Glu Ile Leu Ser Ser Lys Glu Pro Pro Asn Lys Arg Gln 50 60

Asn Ala Arg Leu Arg Val Asp Gln Leu Lys Tyr Asp Val Gln His Leu 65 70 75

Gln Thr Ala Leu Arg Asn Phe Gln His Arg Arg His Ala Arg Glu Gln 85 90 95

Gln Glu Arg Gln Arg Glu Glu Leu Leu Ser Arg Thr Phe Thr Thr Asn 100 105 110

Asp Ser Asp Thr Thr Ile Pro Met Asp Glu Ser Leu Gln Phe Asn Ser 115 120 125

Ser Leu Gln Lys Val His Asn Gly Met Asp Asp Leu Ile Leu Asp Gly 130 140 His Asn Ile Leu Asp Gly Leu Arg Thr Gln Arg Leu Thr Leu Lys Gly 145 150 160 Thr Gln Lys Lys Ile Leu Asp Ile Ala Asn Met Leu Gly Leu Ser Asn 165 170 175 Thr Val Met Arg Leu Ile Glu Lys Arg Ala Phe Gln Asp Lys Tyr Phe 180 190 Met Ile Gly Gly Met Leu Leu Thr Cys Val Val Met Phe Leu Val Val 195 200 205 Gln Tyr Leu Thr 210

<210> <211>

<213> Homo sapiens

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Pro Tyr Cys Leu Glu Ala Gly Glu Pro Thr Pro Gly Leu Ser Asp Thr 20 25 30

Ser Pro Asp Glu Gly Leu Ile Glu Asp Leu Thr Ile Glu Asp Lys Ala 35 40

Val Glu Gln Leu Ala Glu Gly Leu Leu Ser His Tyr Leu Pro Asp Leu 50 60

Gln Arg Ser Lys Gln Ala Leu Gln Glu Leu Thr Gln Asn Gln Val Val 65 70 75 80

Leu Leu Asp Thr Leu Glu Gln Glu Ile Ser Lys Phe Lys Glu Cys His 85 90 95

Ser Met Leu Asp Ile Asn Ala Leu Phe Ala Glu Ala Lys His Tyr His 100 105

Ala Lys Leu Val Asn Ile Arg Lys Glu Met Leu Met Leu His Glu Lys 115 120 125

Thr Ser Lys Leu Lys Lys Arg Ala Leu Lys Leu Gln Gln Lys Arg Gln 130 140

Lys Glu Glu Leu Glu Arg Glu Gln Gln Arg Glu Lys Glu Phe Glu Arg 145 150 160

Glu Lys Gln Leu Thr Ala Arg Pro Ala Lys Arg Met 165 170

<210> 47

<211> 301

<213> Homo sapiens

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Leu Gln Thr Arg Gln Asn Gly Ile Gln Thr Asn Lys Pro Ala Leu Arg 20 25 30

Ala Val Arg Gln Arg Ser Glu Phe Thr Leu Met Ala Lys Arg Ile Gly
35 40 45

Lys Asp Leu Ser Asn Thr Phe Ala Lys Leu Glu Lys Leu Thr Ile Leu 50 55 60

Ala Lys Arg Lys Ser Leu Phe Asp Asp Lys Ala Val Glu Ile Glu Glu 65 70 75

Leu Thr Tyr Ile Ile Lys Gln Asp Ile Asn Ser Leu Asn Lys Gln Ile 85 90 95

Ala Gln Leu Gln Asp Phe Val Arg Ala Lys Gly Ser Gln Ser Gly Arg 100 105

His Leu Gln Thr His Ser Asn Thr Ile Val Val Ser Leu Gln Ser Lys 115 120 125

Leu Ala Ser Met Ser Asn Asp Phe Lys Ser Val Leu Glu Val Arg Thr 130 135 140

Glu Asn Leu Lys Gln Gln Arg Ser Arg Arg Glu Gln Phe Ser Arg Ala 145 150 160

Pro Val Ser Ala Leu Pro Leu Ala Pro Asn His Leu Gly Gly Ala 165 170 175

Val Val Leu Gly Ala Glu Ser His Ala Ser Lys Asp Val Ala Ile Asp 180 185

Met Met Asp Ser Arg Thr Ser Gln Gln Leu Gln Leu Ile Asp Glu Gln 195 200 205

410-1PCTST25.txt
Asp Ser Tyr Ile Gln Ser Arg Ala Asp Thr Met Gln Asn Ile Glu Ser
210 220 Thr Ile Val Glu Leu Gly Ser Ile Phe Gln Gln Leu Ala His Met Val 225 230 240 Lys Glu Gln Glu Glu Thr Ile Gln Arg Ile Asp Glu Asn Val Leu Gly 255 Ala Gln Leu Asp Val Glu Ala Ala His Ser Glu Ile Leu Lys Tyr Phe 260 270 Gln Ser Val Thr Ser Asn Arg Trp Leu Met Val Lys Ile Phe Leu Ile 275 280 285 Leu Ile Val Phe Phe Ile Ile Phe Val Val Phe Leu Ala 290 295 300

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PRT Homo sapiens

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Ala Val Asn Thr Ala Gln Gly Leu Phe Gln Arg Trp Thr Glu Leu Leu 20 25 30

Gln Asp Pro Ser Thr Ala Thr Arg Glu Glu Ile Asp Trp Thr Thr Asn 40 45

Glu Leu Arg Asn Asn Leu Arg Ser Ile Glu Trp Asp Leu Glu Asp Leu 50 60

Asp Glu Thr Ile Ser Ile Val Glu Ala Asn Pro Arg Lys Phe Asn Leu 75 75 80

Asp Ala Thr Glu Leu Ser Ile Arg Lys Ala Phe Ile Thr Ser Thr Arg 90 95

Gln Val Val Arg Asp Met Lys Asp Gln Met Ser Thr Ser Ser Val Gln 100 105 110

Ala Leu Ala Glu Arg Lys Asn Arg Gln Ala Leu Leu Gly Asp Ser Gly 115 120 125

Ser Gln Asn Trp Ser Thr Gly Thr Thr Asp Lys Tyr Gly Arg Leu Asp 130 140

Arg Glu Leu Gln Arg Ala Asn Ser His Phe Ile Glu Glu Gln Gln Ala

150

160

Gln Gln Gln Leu Ile Val Glu Gln Gln Asp Glu Gln Leu Glu Leu Val 165 170 175 Ser Gly Ser Ile Gly Val Leu Lys Asn Met Ser Gln Arg Ile Gly Gly 180 185 Glu Leu Glu Glu Gln Ala Val Met Leu Glu Asp Phe Ser His Glu Leu 195 200 205 Glu Ser Thr Gln Ser Arg Leu Asp Asn Val Met Lys Lys Leu Ala Lys 210 220 Val Ser His Met Thr Ser Asp Arg Gln Trp Cys Ala Ile Ala Ile 225 230 235 Leu Phe Ala Val Leu Leu Val Val Leu Ile Leu Phe Leu Val Leu 245 250 255

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PRT

Homo sapiens

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Arg Ile Ser Ser Asn Ile Gln Lys Ile Thr Gln Cys Ser Val Glu Ile 20 25 30

Gln Arg Thr Leu Asn Gln Leu Gly Thr Pro Gln Asp Ser Pro Glu Leu 35 40 45

Arg Gln Gln Leu Gln Gln Lys Gln Gln Tyr Thr Asn Gln Leu Ala Lys
50 60

Glu Thr Asp Lys Tyr Ile Lys Glu Phe Gly Ser Leu Pro Thr Thr Pro 65 70 75 80

Ser Glu Gln Arg Gln Arg Lys Ile Gln Lys Asp Arg Leu Val Ala Glu 85 90 95

Phe Thr Thr Ser Leu Thr Asn Phe Gln Lys Val Gln Arg Gln Ala Ala 100 105 110

Glu Arg Glu Lys Glu Phe Val Ala Arg Val Arg Ala Ser Ser Arg Val 115 120 125

Ser Gly Ser Phe Pro Glu Asp Ser Ser Lys Glu Arg Asn Leu Val Ser 130 140

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<212> PRT <213> Homo sapiens

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Ala Gln Glu Ile Ala Glu Lys Ile Gln Gln Arg Asn Gln Tyr Glu Arg 20 25 30

Lys Gly Glu Lys Ala Pro Lys Leu Thr Val Thr Ile Arg Ala Leu Leu $^{-}$ 35 40 45

Gln Asn Leu Lys Glu Lys Ile Ala Leu Leu Lys Asp Leu Leu Leu Arg 50 60

Ala Val Ser Thr His Gln Ile Thr Gln Leu Glu Gly Asp Arg Arg Gln 65 70 75 80

Asn Leu Leu Asp Asp Leu Val Thr Arg Glu Arg Leu Leu Leu Ala Ser 90 95

Phe Lys Asn Glu Gly Ala Glu Pro Asp Leu Ile Arg Ser Ser Leu Met 100 105 110

Ser Glu Glu Ala Lys Arg Gly Ala Pro Asn Pro Trp Leu Phe Glu Glu 115 125

Pro Glu Glu Thr Arg Gly Leu Gly Phe Asp Glu Ile Arg Gln Gln Gln 130 140

Gln Lys Ile Ile Gln Glu Gln Asp Ala Gly Leu Asp Ala Leu Ser Ser 145 150 155 160

Ile Ile Ser Arg Gln Lys Gln Met Gly Gln Glu Ile Gly Asn Glu Leu 165 170 175

Asp Glu Gln Asn Glu Ile Ile Asp Asp Leu Ala Asn Leu Val Glu Asn 180 185

Thr Asp Glu Lys Leu Arg Asn Glu Thr Arg Arg Val Asn Met Val Asp 195 200 205

Arg Lys Ser Ala Ser Cys Gly Met Ile Met Val Ile Leu Leu Leu Leu 210 220

Val Ala Ile Val Val Ala Val Trp Pro Thr Asn 225 230 235

<210> 51

<211> 200 <212> PRT

<213> Homo sapiens

<400> 51

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Ala Val Asn Thr Ala Arg Gly Leu Tyr Gln Arg Trp Cys Glu Leu Leu 20 25 30

Gln Glu Ser Ala Ala Val Gly Arg Glu Glu Leu Asp Trp Thr Thr Asn $35 \hspace{1.5cm} 40 \hspace{1.5cm} 45$

Glu Leu Arg Asn Gly Leu Arg Ser Ile Glu Trp Asp Leu Glu Asp Leu 50 60

Glu Glu Thr Ile Gly Ile Val Glu Ala Asn Pro Gly Lys Pro Ala Ala 65 70 75 80

Gln Lys Ser Pro Ser Asp Leu Leu Asp Ala Ser Ala Val Ser Ala Thr 85 90 95

Ser Arg Tyr Ile Glu Glu Gln Gln Ala Thr Gln Gln Leu Ile Met Asp 100 105 110 Glu Gln Asp Gln Gln Leu Glu Met Val Ser Gly Ser Ile Gln Val Leu
Lys His Met Ser Gly Arg Val Glu Glu Leu Asp Glu Gln Gly Ile
Met Leu Asp Ala Phe Ala Gln Glu Met Asp His Thr Gln Ser Arg Met
145
Asp Gly Val Leu Arg Lys Leu Ala Lys Val Ser His Met Thr Ser Asp
165
Arg Arg Gln Trp Cys Ala Ile Ala Val Leu Val Gly Val Leu Leu
Val Leu Ile Leu Leu Phe Ser Leu
200

<210> 52

<210> 52 <211> 249

<213> Homo sapiens

<400> 52

Met Ser Leu Glu Asp Pro Phe Phe Val Val Arg Gly Glu Val Gln Lys
1 5 10 15

Ala Val Asn Thr Ala Arg Gly Leu Tyr Gln Arg Trp Cys Glu Leu Leu 20 25 30

Gln Glu Ser Ala Ala Val Gly Arg Glu Glu Leu Asp Trp Thr Thr Asn 35 40 45

Glu Leu Arg Asn Gly Leu Arg Ser Ile Glu Trp Asp Leu Glu Asp Leu 50 60

Glu Glu Thr Ile Gly Ile Val Glu Ala Asn Pro Gly Lys Phe Lys Leu 65 70 .75 80

Pro Ala Gly Asp Leu Gln Glu Arg Lys Val Phe Val Glu Arg Met Arg 90 95

Glu Ala Val Gln Glu Met Lys Asp His Met Val Ser Pro Thr Ala Val 100 105 110

Ala Phe Leu Glu Arg Asn Asn Arg Glu Ile Leu Ala Gly Lys Pro Ala 115 125

Ala Gln Lys Ser Pro Ser Asp Leu Leu Asp Ala Ser Ala Val Ser Ala 130 140

Thr Ser Arg Tyr Ile Glu Glu Gln Gln Ala Thr Gln Gln Leu Ile Met

Asp Glu Gln Asp Gln Gln Leu Glu Met Val Ser Gly Ser Ile Gln Val 165 170 175 Leu Lys His Met Ser Gly Arg Val Gly Glu Glu Leu Asp Glu Gln Gly 180 185 190 Ile Met Leu Asp Ala Phe Ala Gln Glu Met Asp His Thr Gln Ser Arg 195 200 205 Met Asp Gly Val Leu Arg Lys Leu Ala Lys Val Ser His Met Thr Ser 210 220 Asp Arg Arg Gln Trp Cys Ala Ile Ala Val Leu Val Gly Val Leu Leu 225 230 240 Leu Val Leu Ile Leu Leu Phe Ser Leu 245

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Homo sapiens

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Gln Gln Phe Pro Asp Gly Asp Asp Glu Phe Asp Ser Pro His Glu Asp 20 25 30

Ile Val Phe Glu Thr Asp His Ile Leu Glu Ser Leu Tyr Arg Asp Ile 35 40 45

Arg Asp Ile Gln Asp Glu Asn Gln Leu Leu Val Ala Asp Val Lys Arg

Leu Gly Lys Gln Asn Ala Arg Phe Leu Thr Ser Met Arg Arg Leu Ser 65 70 75 80

Ser Ile Lys Arg Asp Thr Asn Ser Ile Ala Lys Ala Phe Arg Ala Arg 85 90 95

Gly Glu Val Ile His Cys Lys Leu Arg Ala Met Lys Glu Leu Ser Glu 100 105 110

Ala Ala Glu Ala Gln His Gly Pro His Ser Ala Val Ala Arg Ile Ser 115 120 125

Arg Ala Gln Tyr Asn Ala Leu Thr Leu Thr Phe Gln Arg Ala Met His 130 140

Asp Tyr Asn Gln Ala Glu Met Lys Gln Arg Asp Asn Cys Lys Ile Arg 145 155 160 Ile Gln Arg Gln Leu Glu Ile Met Gly Lys Glu Val Ser Gly Asp Gln
165 170 175 Ile Glu Asp Met Phe Glu Gln Gly Lys Trp Asp Val Phe Ser Glu Asn 180 185 Leu Leu Ala Asp Val Lys Gly Arg Gly Pro Pro Thr Thr Arg Ser Arg 195 200 205 Ala Ala Thr Ala Asn Cys Cys Ala Trp Arg Ala Ile Arg Asp Val 210 220 His Glu Leu Phe Leu Gln Met Ala Val Leu Val Glu Lys Gln Ala Asp 225 230 240 Thr Leu Asn Val Ile Glu Leu Asn Val Gln Lys Thr Val Asp Tyr Thr 245 250 255 Gly Gln Ala Lys Ala Gln Val Arg Lys Ala Val Gln Tyr Glu Glu Lys 260 265 270 Asn Pro Cys Arg Thr Leu Cys Cys Phe Cys Cys Pro Cys Leu Lys 275 280 285

Met Ser Tyr Gly Pro Leu Asp Met Tyr Arg Asn Pro Gly Pro Ser Gly 1 10 15 Pro Gln Leu Arg Asp Phe Ser Ser Ile Ile Gln Thr Cys.Ser Gly Asn 20 25 30Ile Gln Arg Ile Ser Gln Ala Thr Ala Gln Ile Lys Asn Leu Met Ser 40 45 Gln Leu Gly Thr Lys Gln Asp Ser Ser Lys Leu Gln Glu Asn Leu Gln 50 60Gln Leu Gln His Ser Thr Asn Gln Leu Ala Lys Glu Thr Asn Glu Leu 65 70 80

Leu Lys Glu Leu Gly Ser Leu Pro Leu Pro Leu Ser Thr Ser Glu Gln 85 90

⁵⁴ 276

PRT

Homo sapiens

Arg Gln Gln Arg Leu Gln Lys Glu Arg Leu Met Asn Asp Phe Ser Ala 100 105 110 Ala Leu Asn Asn Phe Gln Ala Val Gln Arg Arg Val Ser Glu Lys Glu 115 120 125 Lys Glu Ser Ile Ala Arg Ala Arg Ala Gly Ser Arg Leu Ser Ala Glu 130 135 140 Glu Arg Gln Arg Glu Glu Gln Leu Val Ser Phe Asp Ser His Glu Glu 145 150 155 Trp Asn Gln Met Gln Ser Gln Glu Asp Glu Val Ala Ile Thr Glu Gln 165 170 175 Asp Leu Glu Leu Ile Lys Glu Arg Glu Thr Ala Ile Arg Gln Leu Glu 180 185 190 Ala Asp Ile Leu Asp Val Asn Gln Ile Phe Lys Asp Leu Ala Met Met 195 200 205 Ile His Asp Gln Gly Asp Leu Ile Asp Ser Ile Glu Ala Asn Val Glu 210 220 Ser Ser Glu Val His Val Glu Arg Ala Thr Glu Gln Leu Gln Arg Ala 225 230 - 240 Ala Tyr Tyr Gln Lys Lys Ser Arg Lys Lys Met Cys Ile Leu Val Leu 245 250 255 Val Leu Ser Val Ile Ile Leu Ile Leu Gly Leu Ile Ile Trp Leu Val 265 270

Tyr Lys Thr Lys 275

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PRT

Homo sapiens

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Ile Gln Lys Phe Ile Lys Ile Val Ile Pro Thr Asn Leu Glu Arg Leu 20 25 30

Arg Lys His Gln Ile Asn Ile Glu Lys Tyr Gln Arg Cys Arg Ile Trp 35 40 45

410-1PCTST25.txt
Asp Lys Leu His Glu Glu His Ile Asn Ala Gly Arg Thr Val Gln Gln
50 55 60 Leu Arg Ser Asn Ile Arg Glu Ile Glu Lys Leu Cys Leu Lys Val Arg 65 70 75 80 Lys Asp Asp Leu Val Leu Leu Lys Arg Met Ile Asp Pro Val Lys Glu Glu Ala Ser Ala Ala Thr Ala Glu Phe Leu Gln Leu His Leu Glu Ser 100 105 110 Val Glu Glu Leu Lys Lys Gln Phe Asn Asp Glu Glu Thr Leu Leu Gln 115 120 Pro Pro Leu Thr Arg Ser Met Thr Val Gly Gly Ala Phe His Thr Thr 130 135 140 Glu Ala Glu Ala Ser Ser Gln Ser Leu Thr Gln Ile Tyr Ala Leu Pro 145 150 160 Glu Ile Pro Gln Asp Gln Asn Ala Ala Glu Ser Arg Glu Thr Leu Glu 165 170 175 Ala Asp Leu Ile Glu Leu Ser Gln Leu Val Thr Asp Phe Ser Leu Leu 180 185 190 Val Asn Ser Gln Gln Glu Lys Ile Asp Ser Ile Ala Asp His Val Asn 195 200 205 Ser Ala Ala Val Asn Val Glu Glu Gly Thr Lys Asn Leu Gly Lys Ala 210 215 220 Ala Lys Tyr Lys Leu Ala Ala Leu Pro Val Ala Gly Ala Leu Ile Gly 225 230 235 240 Gly Met Val Gly Gly Pro Ile Gly Leu Leu Ala Cys Phe Lys Val Ala 250 255 Gly Ile Ala Ala Leu Gly Gly Gly Val Leu Gly Phe Thr Gly Gly 260 270 Lys Leu Ile Gln Arg Lys Lys Gln Lys Met Met Glu Lys Leu Thr Ser 275 280 285 Ser Cys Pro Asp Leu Pro Ser Gln Thr Asp Lys Lys Cys Ser

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<212> PRT

<213> Homo sapiens

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Gly Gly Pro Pro Ala Pro Pro Pro Asn Leu Thr Ser Asn Arg Arg Leu 20 25 30

Gln Gln Thr Gln Ala Gln Val Asp Glu Val Val Asp Ile Met Arg Val

Asn Val Asp Lys Val Leu Glu Arg Asp Gln Lys Leu Ser Glu Leu Asp 50 60

Asp Arg Ala Asp Ala Leu Gln Ala Gly Ala Ser Gln Phe Glu Thr Ser 65 70 75

Ala Ala Lys Leu Lys Arg Lys Tyr Trp Trp Lys Asn Leu Lys Met Met 90 95

Ile Ile Leu Gly Val Ile Cys Ala Ile Ile Leu Ile Ile Ile Val 100 105 110

Tyr Phe Ser Ser 115

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PRT Homo sapiens

Met Ser Thr Gly Pro Thr Ala Ala Thr Gly Ser Asn Arg Arg Leu Gln 1 10 15

Gln Thr Gln Asn Gln Val Asp Glu Val Val Asp Ile Met Arg Val Asn 20 25 30

Val Asp Lys Val Leu Glu Arg Asp Gln Lys Leu Ser Glu Leu Asp Asp 45

Arg Ala Asp Ala Leu Gln Ala Gly Ala Ser Gln Phe Glu Thr Ser Ala 50 60

Ala Lys Leu Lys Arg Lys Tyr Trp Trp Lys Asn Cys Lys Met Trp Ala 65 70 75 80

Ile Gly Ile Thr Val Leu Val Ile Phe Ile Ile Ile Ile Val Trp 90 95

Val Val Ser Ser 100

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Ser Val Lys Ser Glu Arg Arg Asn Leu Leu Glu Asp Asp Ser Asp Glu 20 30
Glu Glu Asp Phe Phe Leu Arg Gly Pro Ser Gly Pro Arg Phe Gly Pro
35
40
45
Arg Asn Asp Lys Ile Lys His Val Gln Asn Gln Val Asp Glu Val Ile 50 60
Asp Val Met Pro Glu Asn Ile Thr Lys Val Ile Glu Arg Gly Glu Arg 65 70 75 80
Leu Asp Glu Leu Gln Asp Lys Ser Glu Ser Leu Ser Asp Asn Ala Thr
85 90 95
Ala Phe Ser Asn Arg Ser Lys Gln Leu Arg Arg Gln Met Trp Trp Arg
100 105 110
Gly Cys Lys Ile Lys Ala Ile Met Ala Leu Val Ala Ala Ile Leu Leu
115 120 125
Leu Val Ile Ile Ile Leu Ile Val Met Lys Tyr Arg Thr
. 130 140
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Lys His Ala Trp Cys Gly Gly Asn Phe Leu Glu Val Thr Glu Gln Ile 20

Leu Ala Lys Ile Pro Ser Glu Asn Asn Lys Leu Thr Tyr Ser His Gly 45

Asn Tyr Leu Phe His Tyr Ile Cys Gln Asp Arg Ile Val Tyr Leu Cys 50 60

Ile Thr Asp Asp Asp Phe Glu Arg Ser Arg Ala Phe Asn Phe Leu Asn 75 80 Glu Ile Lys Lys Arg Phe Gln Thr Thr Tyr Gly Ser Arg Ala Gln Thr 85 90 95Ala Leu Pro Tyr Ala Met Asn Ser Glu Phe Ser Ser Val Leu Ala Ala 100 105 110 -Gln Leu Lys His His Ser Glu Asn Lys Gly Leu Asp Lys Val Met Glu 115 120 Thr Gln Ala Gln Val Asp Glu Leu Lys Gly Ile Met Val Arg Asn Ile 130 140 Asp Leu Val Ala Gln Arg Gly Glu Arg Leu Glu Leu Leu Ile Asp Lys 145 155 160 Thr Glu Asn Leu Val Asp Ser Ser Val Thr Phe Lys Thr Thr Ser Arg 165 170 175 Asn Leu Ala Arg Ala Met Cys Met Lys Asn Leu Lys Leu Thr Ile Ile 180 185 190 Ile Ile Val Ser Ile Val Phe Ile Tyr Ile Ile Val Ser Pro Leu 195 200 205 Cys Gly Gly Phe Thr Trp Pro Ser Cys Val Lys Lys 210 220

100 PRT

Homo sapiens

Met Glu Glu Ala Ser Glu Gly Gly Gly Asn Asp Arg Val Arg Asn Leu 1 10 15 Gln Ser Glu Val Glu Gly Val Lys Asn Ile Met Thr Gln Asn Val Glu 20 25 30 Arg Ile Leu Ala Arg Gly Glu Asn Leu Glu His Leu Arg Asn Lys Thr 35 40 Glu Asp Leu Glu Ala Thr Ser Glu His Phe Lys Thr Thr Ser Gln Lys 50 60Val Ala Arg Lys Phe Trp Trp Lys Asn Val Lys Met Ile Val Leu Ile 65 75 80 Cys Val Ile Val Phe Ile Ile Ile Leu Phe Ile Val Leu Phe Ala Thr

95

Gly Ala Phe Ser

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Homo sapiens

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Lys Glu Leu Leu Glu Gln Met Asp Leu Glu Val Arg Glu Ile Pro Pro 50 60

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